

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No.	1875.037000
First Inventor	Tonglong Zhang
Title	Die-up Ball Grid Array Package With A Heat Spreader and Method for Making the Same
Express Mail Label No	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO:Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)

2. Applicant claims small entity status.
See 37 CFR 1.27.

3. Specification [Total Pages 27]

(preferred arrangement set forth below)

- Descriptive title of the Invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4. Drawing(s) (35 U.S.C. 113) [Total Sheets 8]

5. Oath or Declaration [Total Pages 2]

a. Newly executed (original or copy)

b. Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)

i. DELETION OF INVENTOR(S)

Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).

6. Application Data Sheet. See 37 CFR 1.76.

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)

a. Computer Readable Form (CRF)

b. Specification Sequence Listing on:

- i. CD-ROM or CD-R (2 copies); or
- ii. paper

c. Statements verifying identity of above copies

JC821 U.S. PTO
09/849537
95/074

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet & document(s))

10. 37 CFR 3.73(b) Statement Power of Attorney
(when there is an assignee)

11. English Translation Document (if applicable)

12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations

13. Preliminary Amendment

14. Two Return Receipt Postcards (MPEP 503)
(Should be specifically itemized)

15. Certified Copy of Priority Document(s)
(if foreign priority is claimed)

16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.

17. Other: Authorization under 37 C.F.R. § 1.136(a)(3)
 Other: The name of the assignee is: Broadcom Corporation

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76

Continuation Divisional Continuation-in-Part (CIP)
Prior application information: Examiner _____ of prior application No: _____ / _____
Group/Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label

Customer No. 26111

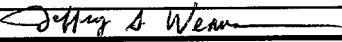
26111

PATENT TRADEMARK OFFICE

or Correspondence address below

(Insert Customer No. or Attach bar code label here)

NAME	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C		
Attorneys at Law			
ADDRESS			
CITY	STATE	ZIP CODE	
COUNTRY	TELEPHONE	FAX	

NAME (Print/Type)	Jeffrey S. Weaver	Registration No. (Attorney/Agent)	45,608
SIGNATURE			
Date	5-7-01		

Burden Hour Statement: this form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

TO/LO/50
PTO

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

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jc09/849531
05/07/01

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*LIMITED TO MATTERS
AND PROCEEDINGS BEFORE
FEDERAL COURTS & AGENCIES
**REGISTERED PATENT AGENT
***SENIOR COUNSEL

May 7, 2001

WRITER'S DIRECT NUMBER:

(202) 218-7831

INTERNET ADDRESS:

JWEAVER@SKGF.COM

Commissioner for Patents
Washington, D.C. 20231

Box Patent Application

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)
Appl. No. To be assigned; Filed: May 7, 2001
For: **Die-Up Ball Grid Array Package With A Heat Spreader and Method
for Making the Same**

Inventors: Zhang *et al.*
Our Ref: 1875.0370000

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

1. PTO Fee Transmittal (Form PTO/SB/17) (in duplicate);
2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
3. U.S. Utility Patent Application entitled:

**Die-Up Ball Grid Array Package With A Heat Spreader and Method for
Making the Same**

Commissioner for Patents
May 7, 2001
Page 2

and naming as inventors:

Tonglong Zhang
Reza-ur Rahman Khan

the application consisting of:

- a. A specification containing:
 - i. 20 pages of description prior to the claims;
 - ii. 6 pages of claims (37 claims);
 - iii. a one (1) page abstract;
- b. 8 sheet(s) of drawings (Figures 1-14); and
- c. An original executed Declaration;

4. Application data sheet;
5. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3) (in duplicate);
6. Recordation Form Cover Sheet;
7. An original executed Assignment to Broadcom Corporation, recordation of which is hereby respectfully requested;
8. Two (2) return postcards; and
9. Our check No. 31217 for \$ 1,056.00 to cover:

\$ 710.00 Filing fee for patent application;
\$ 40.00 Assignment recordation fee; and
\$ 306.00 Fee for excess claims..

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

Commissioner for Patents
May 7, 2001
Page 3

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Jeffrey S. Weaver
Attorney for Applicants
Registration No. 45,608

JSW/asl
Enclosures

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SKGF Rev 8/1/00 mac

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$ 1,056.00)

Complete if Known

Application Number	To be assigned
Filing Date	May 7, 2001
First Named Inventor	Tonglong Zhang
Examiner Name	To be assigned
Group Art Unit	To be assigned
Attorney Docket No.	1875.0370000

METHOD OF PAYMENT (check one)

FEE CALCULATION (continued)

1. The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:

Deposit Account Number **19-0036**
Deposit Account Name **Sterne, Kessler, Goldstein & Fox P L.L.C.**

Charge Any Additional Fee Required
Under 37 CFR §§ 1.16 and 1.17

Applicant claims small entity status
See 37 CFR 1.27

3. Payment Enclosed:

Check Credit card Money Order Other*
*Charge any deficiencies or credit any overpayments in the fees or fee
calculations of Parts 1, 2 and 3 below to Deposit Account No 19-0036

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid
101	710	201	355	Utility filing fee	<u>710.00</u>
106	320	206	160	Design filing fee	<u></u>
107	490	207	245	Plant filing fee	<u></u>
108	710	208	355	Reissue filing fee	<u></u>
114	150	214	75	Provisional filing fee	<u></u>

SUBTOTAL (1) (\$ 710.00)

2. EXTRA CLAIM FEES

Extra	Fee from below	Fee Paid
Total Claims 37 - 20** = 17	X 18	= \$306.00
Indep. Claims 2 - 3** = 0	X 0	= 0
Multiple Dependent	0	= 0

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim
108	80	209	40	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 306.00)

** or number previously paid, if greater. For Reissues, see above

3. ADDITIONAL FEES

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee paid
105	130	205	65	Surcharge - late filing fee or oath	<u></u>
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	<u></u>
139	130	139	130	Non-English specification	<u></u>
147	2,520	147	2,520	For filing a request for ex parte reexamination	<u></u>
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	<u></u>
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	<u></u>
115	110	215	55	Extension for reply within first month	<u></u>
116	390	216	195	Extension for reply within second month	<u></u>
117	890	217	445	Extension for reply within third month	<u></u>
118	1,390	218	695	Extension for reply within fourth month	<u></u>
128	1,890	228	945	Extension for reply within fifth month	<u></u>
119	310	219	155	Notice of Appeal	<u></u>
120	310	220	155	Filing a brief in support of an appeal	<u></u>
121	270	221	135	Request for oral hearing	<u></u>
138	1,510	138	1,510	Petition to institute a public use proceeding	<u></u>
140	110	240	55	Petition to revive - unavoidable	<u></u>
141	1,240	241	620	Petition to revive - unintentional	<u></u>
142	1,240	242	620	Utility issue fee (or reissue)	<u></u>
143	440	243	220	Design issue fee	<u></u>
144	600	244	300	Plant issue fee	<u></u>
122	130	122	130	Petitions to the Commissioner	<u></u>
123	130	123	130	Petitions related to provisional applications	<u></u>
126	180	126	180	Submission of Information Disclosure Stmt	<u></u>
581	40	481	40	Recording each patent assignment per property (times number of properties)	40.00
146	710	246	355	Filing a submission after final rejection (37 CFR 1.129(a))	<u></u>
149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))	<u></u>
179	710	279	355	Request for Continued Examination (RCE)	<u></u>
169	900	169	900	Request for expedited examination of a design application	<u></u>
Other fee (specify)					
Other fee (specify) :					

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40.00)

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Jeffrey S. Weaver	Registration No. (Attorney/Agent)	45,608	Telephone	202-371-2600
Signature				Date	5-7-01

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